

PERMIT CENTER

HANDOUT ON CROSS CONNECTION BACKFLOW

Informational Brochure

February 2020

Prepared by:

City of Auburn

Customer Service Center (253) 931-3010 FAX (253) 931-3053

Introduction

The City of Auburn is responsible for protecting Auburn's public water system. This is done by making sure that contaminants from private property do not back up into the public water system. As required by State Law (WAC 246-290-490) and Auburn City Code (ACC 13.12.040), the City of Auburn Cross Connection Control program ensures that all commercial businesses, irrigation systems and fire line connections have backflow prevention devices installed.

Who Needs Backflow Protection?

The Washington Administrative Code lists specific high hazard facilities, and the City cross connection control program requires each water service that does not serve a-single family home to have premise isolation backflow protection, unless the single family home has an inground irrigation system. Premise isolation is backflow prevention installed at the incoming source to the property, usually at the water meter. Reduced Pressure Backflow Assembly (RPBA) is most often needed. Double Check Valve Assembly (DCVA) can be used in some instances.

•	New commercial building or updating existing commercial space	RPBA
•	New multi-family building or updating existing multi-family building	RPBA
•	Lawn irrigation system without chemicals	DCVA
•	Fire sprinkler system without chemicals	DCVA

What is Needed to Install Backflow Protection?

- 1. Fill out the Utility Application and pay permit fee.
- 2. Call the City Cross Connection Specialist (253-931-3064) to discuss the location of the device.
- 3. For installation involving a new water meter, coordinate with the City to provide water for testing the backflow device. Backflow device must be installed and tested within 24 hours of installation of the meter.
- 4. Have the device installed by the plumber and tested by a Certified Backflow tester. A list of testers and installation details are included with this handout.
- 5. Call the City (253-931-3064) for inspection and approval of the permit. Please give the staff 24 hours' notice. This must be completed before the final approval of your project.

What is Needed to Maintain Backflow Protection?

Backflow devices need to be tested annually to ensure that they are functioning properly to protect your health and to prevent contaminants and pollutants from entering the public water system. To achieve that, it is important for you to:

- Hire a certified backflow testing company to perform the annual test and to
- Submit the test results to the City.

For information about the companies who are registered to perform backflow assembly testing in the City of Auburn, please see the attachment for the City's 2019 Registered Backflow Assembly Testers list.

If you have questions, please contact the City of Auburn Cross Connection Control Program at 253-931-3064

2020 City of Auburn Registered Backflow Assembly Testers

Only test reports from City of Auburn registered testers will be accepted. The Backflow Testers listed below are registered to test within the City's Water System and have chosen to be on this list.

There are Backflow Testers not on this list that have registered to test in Auburn. For verification please email backflowtest@auburnwa.gov or call 253-931-3064

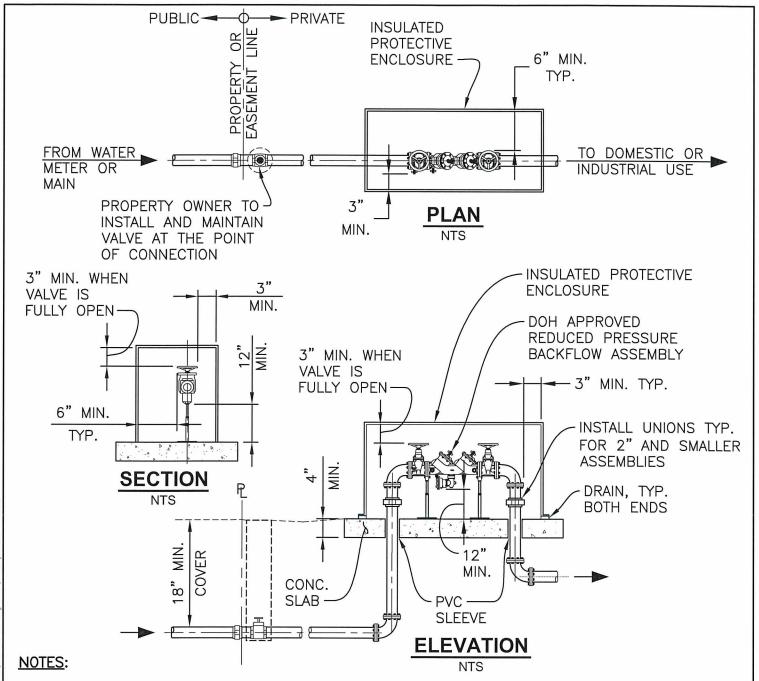
<u>backflowtest@auburnwa.gov</u> or call 253-931-3064	
DM Backflow Testing	253-227-8858
James Dravis	
The Plumbing Joint	425-228-3204
Larry Miller	
www.plumbingjoint.com	
Backflows Only, LLC	253-606-4104
Paul Frederick	
Fire Systems West	253-833-1248
Justin Griffith-Brendan Fisher	
Backflows Northwest Inc.	425-277-2888
Chris Sutton-Caleb Holmes-Scott Radcliffe-Tyler Jansen-Charles Smith-AJ Brevick	
www.backflowsnorthwest.com	
DB Plumbing	206-795-9192
Dale Baxmann	
Auburn Mechanical	253-838-9780
Logan Shefelbine-Kurt Cushman-John Stokes	
www.auburnmechanical.com	
The Safety Team, Inc	206-762-1450
Scott Parfitt-Stephen Ellisor-Fue Thao-Kenneth Keith	
www.thesafetyteaminc.com	
Campbell's Backflow, Landscaping & Irrigation	253-426-2321
Bradley Campbell	
Cross Connection Specialist, LLC	253-318-3156
Nancy Perry	
Nautilus Backflow Service	253-564-1905
Rodger Dent	253-686-9263
P.L.E. Backflow Testing	253-297-4387
Michael Gittings	
www.backflowtester.com	
Ace Backflow Only	253-250-1295
Terry Leonard	253-756-6626
www.acebackflow.com	
Royal Waldock Associates	253-549-5573
Mark Barfield	253-208-0249
Campell Underground LLC	253-606-1301
Mark A. Campbell	
Dennehy's Backflow Service	206-919-9235
Sean Dennehy	
Olympic Landscape LLC	253-922-7075
Nick Vigil-Jonathan Walle	
www.olympiclandscape.com	
AWA Backflow	206-369-5660
Jeff Hansen	
www.AWABackflow.com	

Affordable Washington Backflow, LLC	206-972-7505
David Foy-Jeff Hansen-Marshal Menehan	425-892-4808
www.washingtonbackflowtesting.com	
A+ Backflow Inc.	425-830-3749
Dave Kuca	
www.Aplusbackflowtesting.com	
Pat's Plumbing	253-946-5999
Jenny Shaw	
www.patsplumbing.com	
Available Backflow Testing-ABT	206-707-1775
Bryan S Vangstad	
BATMASTER Backflow/ABC Water Specialty	425-397-0275
Thomas C Gammon-Cody Gobbato	425-355-9826
<u>www.backflowservice.net</u> <u>www.abcwaterspecialty.com</u>	
Puget Sound Backflow	206-914-8250
Jake Wiseman	
www.pugetsoundbackflow.com	
Backflow Systems LLC	425-569-9252
Manuel Barba	310-251-9809
www.backflowsystems.net	

This list is provided for the convenience of the water service customer. The City of Auburn makes no representation regarding the skill or quality of service of the tester listed above. The City of Auburn does not assume or accept any liabilities for the actions or performance of such testers. Water service customers should use their own judgment with respect to contracting with these or any other testers.

City of Auburn Registered Backflow Assembly Tester List.

Updated January 2020



- INSULATED PROTECTIVE ENCLOSURE MUST COMPLY WITH THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) 1060 OUTDOOR ENCLOSURES FOR BACKFLOW PREVENTION ASSEMBLIES. IT SHALL BE LOCKABLE WITH A KEY LOCK OR PADLOCK AND SHALL ALLOW FOR MINIMUM CLEARANCES AND PROVIDE ADEQUATE DRAINAGE.
- 2. RPBA SHALL BE INSTALLED ADJACENT TO THE METER AND HAVE NO BRANCH CONNECTION BETWEEN THE METER AND THE BACKFLOW ASSEMBLY. INSTALL RPBA HORIZONTALLY.
- 3. BACKFLOW ASSEMBLY MUST BE APPROVED FOR USE IN WASHINGTON STATE BY THE DEPARTMENT OF HEALTH (DOH). IT MUST BE TESTED BY A STATE CERTIFIED "BAT" AT THE TIME OF INSTALLATION, ANNUALLY, AFTER THE ASSEMBLY IS REPAIRED, MOVED OR AFTER AN INCIDENT AT OWNER'S EXPENSE.
- 4. BACKFLOW ASSEMBLY SHALL BE PURCHASED AND INSTALLED AS A UNIT, AS SHIPPED BY THE MANUFACTURER, WITH NO MODIFICATIONS TO ANY PART OF THE ASSEMBLY.
- 5. A MINIMUM OF TWO SUPPORTS MUST FIRMLY ANCHOR THE ASSEMBLY.

APPROVED BY CITY ENGINEER:

| DATE: | ACUTY OF LINE | REDUCED PRESSURE BACKFLOW ASSY. (OUTSIDE INSTALLATION)

PUBLIC WORKS DEPARTMENT | STANDARD DETAIL: W-22.2

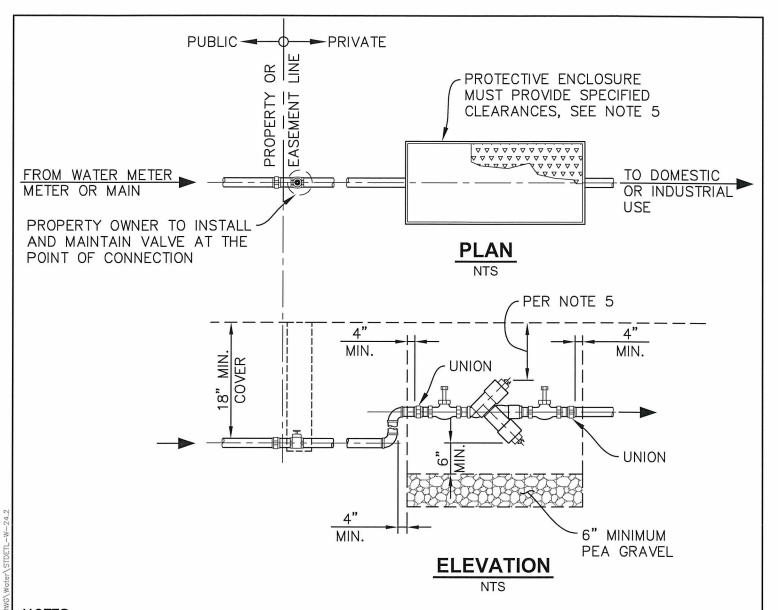
- NOTES:
- 1. RPBA INSTALLED INSIDE BUILDING SHALL HAVE NO BRANCH CONNECTIONS BETWEEN THE METER AND THE BACKFLOW ASSEMBLY. INSTALL RPBA HORIZONTALLY.
- 2. BACKFLOW ASSEMBLY MUST BE APPROVED FOR USE IN WASHINGTON STATE BY THE DEPARTMENT OF HEALTH (DOH). IT MUST BE TESTED BY A STATE CERTIFIED "BAT" AT THE TIME OF INSTALLATION, ANNUALLY, AFTER THE ASSEMBLY IS REPAIRED, MOVED OR AFTER AN INCIDENT AT OWNER'S EXPENSE.
- 3. BACKFLOW ASSEMBLY SHALL BE PURCHASED AND INSTALLED AS A UNIT, AS SHIPPED BY THE MANUFACTURER, WITH NO MODIFICATIONS TO ANY PART OF THE ASSEMBLY.
- 4. A MINIMUM OF TWO SUPPORTS MUST FIRMLY ANCHOR THE ASSEMBLY.
- 5. ADEQUATE DRAINAGE MUST BE PROVIDED.

APPROVED BY CITY ENGINEER: DATE:

PUBLIC WORKS DEPARTMENT



REDUCED PRESSURE BACKFLOW ASSY. (INSIDE INSTALLATION)



NOTES:

- 1. BACKFLOW ASSEMBLY MUST HAVE ADEQUATE SPACE CONSIDERATIONS FOR PROPER TESTING AND MAINTENANCE. A MINIMUM OF 12" CLEARANCE FROM ANY OBSTRUCTIONS ON THE TEST SIDE. A MINIMUM OF 6" CLEARANCE BELOW ASSEMBLY AND A MINIMUM OF 6" OF PEA GRAVEL IN THE BOTTOM OF THE BOX. THE MINIMUM CLEARANCE FROM THE TOP OF THE PEA GRAVEL TO THE BOTTOM OF THE ASSEMBLY IS 6".
- 2. DCVA MUST BE INSTALLED WITH TEST COCKS FACING UP. TEST COCKS MUST BE PLUGGED WITH BRASS OR PLASTIC PLUGS. INSTALL DCVA HORIZONTALLY.
- 3. BACKFLOW ASSEMBLY MUST BE APPROVED FOR USE IN WASHINGTON STATE BY THE DEPARTMENT OF HEALTH (DOH). IT MUST BE TESTED BY A STATE CERTIFIED "BAT" AT THE TIME OF INSTALLATION, ANNUALLY, AFTER THE ASSEMBLY IS REPAIRED, MOVED OR AFTER AN INCIDENT AT OWNER'S EXPENSE.
- 4. BACKFLOW ASSEMBLY SHALL BE PURCHASED AND INSTALLED AS A UNIT, AS SHIPPED BY THE MANUFACTURER, WITH NO MODIFICATIONS TO ANY PART OF THE ASSEMBLY.
- 5. MINIMUM CLEARANCE AT ABOVE ASSEMBLY SHALL BE: 9" (FOR 3/4" METER), 12" (FOR 1" METER), AND 14" (FOR 1 1/2" & 2" METER).

APPROVED BY OITY ENGINEER:

PUBLIC WORKS DEPARTMENT

DATE:

12/31

AUBURN WASHINGTON DOUBLE CHECK VALVE ASSEMBLY (OUTSIDE INSTALLATION)

NOTES:

- BACKFLOW ASSEMBLY MUST HAVE ADEQUATE SPACE CONSIDERATIONS FOR PROPER TESTING AND MAINTENANCE. A MINIMUM OF 6" SIDE CLEARANCE BETWEEN DCVA AND WALL OR ANY OBSTRUCTIONS AND A MINIMUM OF 6" CLEARANCE BELOW ASSEMBLY SHALL BE PROVIDED.
- 2. DCVA MUST BE INSTALLED WITH TEST COCKS FACING UP. TEST COCKS MUST BE PLUGGED WITH BRASS OR PLASTIC PLUGS.
- DCVA INSTALLED INSIDE BUILDING SHALL HAVE NO BRANCH CONNECTIONS BETWEEN THE METER AND THE BACKFLOW ASSEMBLY. INSTALL DCVA HORIZONTALLY.
- 4. BACKFLOW ASSEMBLY MUST BE APPROVED FOR USE IN WASHINGTON STATE BY THE DEPARTMENT OF HEALTH (DOH). IT MUST BE TESTED BY A STATE CERTIFIED "BAT" AT THE TIME OF INSTALLATION, ANNUALLY, AFTER THE ASSEMBLY IS REPAIRED, MOVED OR AFTER AN INCIDENT AT OWNER'S EXPENSE.
- 5. BACKFLOW ASSEMBLY SHALL BE PURCHASED AND INSTALLED AS A UNIT, AS SHIPPED BY THE MANUFACTURER, WITH NO MODIFICATIONS TO ANY PART OF THE ASSEMBLY.
- 6. TWO SUPPORTS, EITHER WALL OR FLOOR, ONE ON EACH SIDE OF THE ASSEMBLY, MUST FIRMLY ANCHOR THE ASSEMBLY.

APPROVED BY CUTY ENGINEER:

DATE:



DOUBLE CHECK VALVE ASSEMBLY (INSIDE INSTALLATION)

STANDARD DETAIL:

W - 25.2

PUBLIC WORKS DEPARTMENT